

Science

Aquatic Science

3.F – Research and describe the history of aquatic science and contributions of scientists. → Several scientists during the Renaissance contributed to scientific discoveries. Have students research the contributions to aquatic science from Renaissance scientists. See materials in the Curriculum Guide.

Astronomy

1-3 – Scientific processes. → Students may enter into the School Days Science Fair. This free contest is based on experiments linked to historical scientists. For more information contact schooldays@texrenfest.com.

4.a – Research and describe the use of astronomy in ancient civilizations such as the Egyptians, Mayans, Aztecs, Europeans, and the native Americans. → Use materials provided in the Curriculum Guide to assist in studying how astronomy effected European growth to the New World. While at School Days, discuss with the Spanish Conquistadors their experiences with the New World civilizations.

4.b – Research and describe the contributions of scientists to our changing understanding of astronomy, including Ptolemy, Copernicus, Tycho Brahe, Kepler, Galileo, Newton, Einstein, and Hubble, and the contribution of women astronomers, including Maria Mitchell and Henrietta Swan Leavitt. → Several scientists during the Renaissance contributed to scientific discoveries. Have students research the contributions to astronomy from Renaissance scientists. Discuss what influenced the scientists to be hesitant to announce their findings. See materials in the Curriculum Guide.

4.c – Describe and explain the historical origins of the perceived patterns of constellations and the role of constellations in ancient and modern navigation. → Several scientists during the Renaissance contributed to scientific discoveries. Have students research the contributions to astronomy as it relates to navigation from Renaissance scientists. How did the stars help the explorers and sailors? See materials in the Curriculum Guide.

Biology

1-3 - Scientific processes. → Students may enter into the School Days Science Fair. This free contest is based on experiments linked to historical scientists. For more information contact schooldays@texrenfest.com.

Chemistry

1-3 - Scientific processes. → Students may enter into the School Days Science Fair. This free contest is based on experiments linked to historical scientists. For more information contact schooldays@texrenfest.com.

High School TEKS Skills at the Texas Renaissance Festival School Days

4 – Science concepts. The student knows the characteristics of matter and can analyze the relationships between chemical and physical changes and properties. → Use the worksheets and the information provided in the Curriculum Guide to compare modern Chemistry to Chemistry's predecessor - Alchemy.

5 – Science concepts. The student understands the historical development of the Periodic Table and can apply its predictive power. → Use the worksheets and the information provided in the Curriculum Guide to compare modern Chemistry to Chemistry's predecessor - Alchemy.

Earth and Space Science

1-3 - Scientific processes. → Students may enter into the School Days Science Fair. This free contest is based on experiments linked to historical scientists. For more information contact schooldays@texrenfest.com.

7 – Earth in space and time. The student knows that scientific dating methods of fossils and rock sequences are used to construct a chronology of Earth's history expressed in the geologic time scale. → Have the students visit Them Bones Fossil Shoppe while at TRF School Days. Have the workers in the shop explain to students how their fossils were dated and the different time periods they represent.

8 – Earth in space and time. The student knows that fossils provide evidence for geological and biological evolution. → Have the students visit Them Bones Fossil Shoppe while at TRF School Days. Have the workers in the shop explain to students how their fossils were dated and the different time periods they represent.

Environmental Systems

1-3 - Scientific processes. → Students may enter into the School Days Science Fair. This free contest is based on experiments linked to historical scientists. For more information contact schooldays@texrenfest.com.

4.a – Identify native plants and animals using a dichotomous key. → Prior to the School Days trip, print out the TRF Dichotomous Plant Key Worksheet from the Curriculum Guide. While the students are on site, have them identify the plants marked around site from their key. Have the students turn in their worksheet at the end of the trip.

Integrated Physics and Chemistry

1-3 - Scientific processes. → Students may enter into the School Days Science Fair. This free contest is based on experiments linked to historical scientists. For more information contact schooldays@texrenfest.com.

4 -6 – Science concepts → Have students enter the School Days Trebuchet Contest. Students build a small trebuchet machine and launch bean bags on the Joust field. Calculations and design plans must be presented in a design notebook. For full contest rules please contact schooldays@texrenfest.com

Physics

High School TEKS Skills at the Texas Renaissance Festival School Days

1-3 - Scientific processes. → Students may enter into the School Days Science Fair. This free contest is based on experiments linked to historical scientists. For more information contact schooldays@texrenfest.com.

4 -6 – Science concepts → Have students enter the School Days Trebuchet Contest. Students build a small trebuchet machine and launch bean bags on the Joust field. Calculations and design plans must be presented in a design notebook. For full contest rules please contact schooldays@texrenfest.com